APPENDIX D

Subsystem Interface

```
public interface IModelService
      // set the configuration object used to configure the behavior of ModelService
      void SetConfig(Config conifg);
      ·// add an xml ER-map file to be converted
      void AddMapFile(string fileName);
      // tell ModelService to start processing
      void Process();
}
public interface IMapLoader
      // tell MapLoader to use a particular XSLT file for transforming the XML file
before conversion to EntityMap
      void SetMapTransformFile(string mapTransformFileName);
      // add a map file to the list of map files to be loaded
      void AddMapFile(string fileName);
      // tell MapLoader to load all the map files added
      void LoadMaps();
      // retrieve the output collection of entity maps loaded
      EntityMapCollection EntityMaps { get; }
}
public interface IMapWalker
      // set the schema name to be used in the DataTable entries
      void SetDBSchemaName(string dbSchemaName);
      // set a collection of entity maps to be walked
      void SetEntityMapCollection(EntityMapCollection entityMaps);
      // set the measure hints
      void SetMeasureHints(MeasureHintCollection measureHints);
      // walk the entity maps
      void WalkEntityMaps();
```

```
// retrieve the resulting dataset schema generated
      DataSet Schema { get; }
}
public interface IModelGenerator
      // set the connect string of the default data source
      void SetDataSource(string dbServerName, string dbDatabaseName);
      // set the hint object to be used during model generation
      void SetHint(Hint hint);
      // set the dataset schema to be processed
      void SetSchema(DataSet dataset);
      // generate the UDM Model from the supplied dataset schema
      void Generate();
      // retrieve the resulting model generate
      UDMModel UdmModel { get; }
}
public interface IModelMaterializer
{
      // set the UDM server to use for the materialization
      void SetUDMServerName(string udmServerName);
      // set the log file for doing log only
      void SetLogFile(string logFileName);
      // instruct ModelMaterializer to drop other UDM databases before materializing
      void SetDropAllDatabases(bool drop);
      // set the model to be materialized
      void SetUdmModel(UDMModel udmModel);
      // materialize a UDM model onto the UDM server
      void Materialize();
      // process a previously materialized UDM Model
      void Process();
}
```

```
public interface ICodeGenerator
{
    // set the generator to be invoked for the real work
    void SetBICodeGenerator(IBIGenerator generator);

    // set the UDM Model whose code is to be generated from
    void SetUdmModel(UDMModel udmModel);

    // start code generation for the given model
    void Generate();
}
```